USER MANUAL

Warmup Thermostat type WA-TSTAT-V

57628 09/06 (BJ)

Language

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1. Introduction

The NewStar thermostat can switch on your heating system at pre-determined times on different days of the week. It is possible to set 4 periods called events each day with different temperatures. The thermostat comes with a default schedule that is suitable for most installations. Unless you change these settings, the thermostat will operate to this default program.

Working with lower temperatures during times that the room is unoccupied will lower your energy costs without reducing the comfort. The thermostat has an adaptive function that automatically changes the start time of a heating period so that the desired temperature is reached at the time that you set. After 3 days the adaptive function has learned when the heating must be switched on.

2. Getting started

Quick set-up:
The first time you connect the power or after a reset, the display will show you “Welcome to Warmup”.

Push accept button. Then you can select:
- Language
- Time
- Day
- Temperature
- Child lock
- Heater?
- Covering?
- Sub floor
- Application

Use the navigation buttons for selecting / changing in the menus.

Important:
You have, as minimum, to select “Heater” and “covering” to define the type of heater and covering, before you can start up the thermostat.

For further information, see point:
5. Buttons.
6.4. General settings.

3. General Display

The display will normally show the period (day, night, home, out), the current temperature, and the time.

The period is indicated by a symbol. Below you can see a list of some of the symbols:

At work

At home

Day

Night

4. LED

The LED is placed in the top right corner above the display.

LED signal	Indicates
Constant red light	Relay is active
Blinks	System failure. (see error messages)
No light	Relay not active or thermostat turned off

5. Buttons

You can use the standby button to turn display and regulation of temperature on/off. When the thermostat is switched off, the relay disengages. The clock will keep going, though.

When you press the Reset button (use pen to activate) for 3 seconds, a "Confirm factory reset" text will be shown on the display. Then press the Accept button to reset the thermostat, which will then start up with default values and display the installation menu.

The buttons for navigating in the menus and selecting/changing settings are placed in the middle.

Up

Back/Cancel Accept Forward

Down

Back/Cancel
- Go back in the menus (i.e. upwards in the menu hierarchy).
- Cancel changes of current value.

Forward
- Move forward in the menus (i.e. downwards in the menu hierarchy).
- Quick steps upwards when specifying values, e.g. temperature.

Up
- Move up in menu.
- Raise current value, e.g. temperature.

Down
- Move down in menu.
- Lower current value, e.g. temperature.

Accept/Change
- Select item from menu to see/change/set value.
- Accept new/changed setting.

6. Menus for Setting Up the Thermostat

You can program the thermostat and make various settings by using the menu system. To open the main menu, press the Accept button. In the sections below every item on the main menu will be described in more detail.

6.1. Operation

Here you can choose between three different ways of setting the temperature(s):

6.1.1. Auto

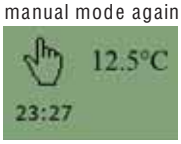
Select Auto if you want the temperature to be controlled and operated automatically via the 4-event system.

6.1.2. Manual

Here you can cancel the scheduled 4-event program (e.g. during holidays) and set the wanted temperature manually. You may want to adjust the temperature to for example 5°C for frost protection while you are away.

To set the temperature, do the following:
1. Select **Manual**.
2. Use the up/down button to raise/lower the temperature.
3. Press the Accept button to finish.

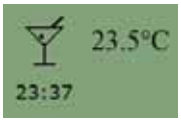
Please note: The temperature that you set manually will be valid until you cancel the manual mode again by selecting Auto.



6.1.3. Comfort

Here you can set a temporary **Comfort** temperature (so-called party mode) for a single event.

To set the temperature, do the following:
1. Select **Comfort**.
2. Use the up/down button to raise/lower the temperature.
3. Press the Accept button to finish.



Please note: Comfort mode is a temporary, manual setting that will be automatically cancelled by the next event in the scheduled 4-event system.

6.2. Setting 4-event

If **Auto** has been selected in the **Operation** menu, the 4-event system can be set to automatically control the temperature settings for each day in a period of 7 days.

You can select the wanted temperature for **Day** and **Night**, for when you are Out and at Home, and for the **Weekend Day** and **Weekend Night**. Moreover, you can define when you want each time period (**Day**, **Night**, **Out**, **Home**, **Weekend Day**, and **Weekend Night**) to begin.

Please note: You need to use the Down button to move to the end of the menu.

Finally you can specify temperatures and periods (Day, Night, Out, Home) for each day of the week (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday). This requires, though, that the **Mon-Sun**, **4-events** option has been selected in the **Programming** menu (will be shown as **Programming**: 7:0 on the display). Please refer to section about Programming on page 8.

6.2.1. Example of Scheduling 4-event Set-up

If you in the **Programming** menu have selected **Mon-Fri**, **Sat-Sun** (shown as Programming: 5:2 on the display) you can set up the 4 periods (called events) in the following way:

1. Choose **Day**.
   - Specify when **Day time** begins.
     Use the up/down button to mark the wanted time.
     Press the Accept button to finish.
   - Specify the wanted **Day temperature**.
     Use the up/down button to raise/lower the temperature.
     Press the Accept button to finish.
2. Choose **Out**.
   - Specify when Out time begins.
   - Specify the wanted temperature when you are out and away from home (Out temp).
3. Choose **Home**.
   - Specify when **Home time** begins.
   - Specify the wanted temperature when you are at home (Home temp).
4. Choose **Night**.
   - Specify when **Night time** begins.
   - Specify the wanted **Night temperature**.
5. Choose **Weekend Day**.
   - Specify when Day time begins on weekends.
   - Specify the wanted Day temperature on weekends.
6. Choose **Weekend Night**.
   - Specify when **Night time** begins on weekends.
   - Specify the wanted **Night temperature** on weekends.

6.3. Programming

Here you can choose between various programming options that are used in connection with scheduling the 4-event system:

- **Mon-Fri, Sat-Sun**
  Will be shown as 5:2 on the display. This setting allows you to have 5 days with the same 4-events, and 2 days with the same 2 events. The days 1-5 are controlled by the settings for **Day, Night, Out, Home** and day 6-7 is controlled by the settings for **Weekend Day** and **Weekend Night**.

- **Mon-Sat, Sun**
  Will be shown as 6:1 on the display. This setting allows you to have 6 days with the same 4-events, and 1 day with 2 events. The days 1-6 are controlled by the settings for **Day, Night, Out, Home** and day 7 is controlled by the settings for **Weekend Day** and Weekend Night.

- **Mon-Sun, 4-events**
  Will be shown as 7:0 on the display. This setting allows you to have 7 days with 4 different events (**Day, Night, Out, Home)**. The days 1-7 are controlled by individual day settings (Monday – Sunday).

6.4. General Settings

6.4.1. Language

Here you can select the language you want to be used on the display. You can choose between the following languages:
- English
- German (Deutsch)
- French (Francais)
- Spanish (Espanol)
- Portuguese (Portogese)

6.4.2. Time

- Here you can select whether 12- or 24-hour clock should be used.
- Further, you can set the time here. To set the time, select **Set time**. Then use the up/down buttons to adjust the time, and press the Accept button to finish.

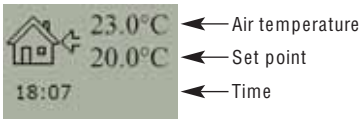
6.4.3. Day
Here you can set the day of the week:
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday

Please note: You need to use the Down button to move to the end of the list of weekdays.

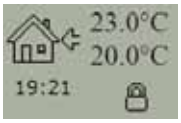
6.4.4. Temperature Scale
Here you can specify what temperature unit should be used in the display:
- °C (Celsius, with a resolution of 0.5 degree)
- °F (Fahrenheit, with a resolution of 1 degree)
- A scale from 1-10 (in steps of about 10°).

Display shows
Here you can decide whether the display shall show the time, set point and/or air temperature.

- **Time** (On/Off)
- **Set point** (On/Off) (The current temperature that the thermostat has been set to, for instance in the 4-event settings.)
- **Air Temp.** (On/Off). The room/air temperature currently registered by the sensor.



6.4.5. Child lock
By switching on the child lock you can lock the menus (marked with a padlock symbol on the display). Then it will no longer be possible to select the sub-menus and change the settings. You can still set a comfort temperature and the time, though.



Please note: You can still use the Reset button to return to factory settings, if the child lock has been switched on.

6.4.6. Heater
Here you can define the type of heater that the thermostat is attached to:
- Wire
- Ribbon
- Carbon
- Radiator
- Type A
- Type B
- Type C
- User Defined

Please refer to Appendix for configuration table showing combinations of heater type and covering.

6.4.7. Covering
Here you can enter the type of floor covering:
- Ceramic Tiles
- Stone
- Laminate
- Wood
- Carpet
- Vinyl
- Other

Please refer to Appendix for configuration table showing combinations of heater type and covering.

6.4.8. Sub Floor
Here you can enter the type of sub floor:
- Concrete
- Screed
- WBP Ply
- Ins. Backer Board
- Backer Board

6.4.9. Application
Here you can select the type of regulator application:

- **Floor Temp. Cont.**: A floor sensor is used.

- **Fl. Cont. 2 sensors**: Both floor sensor and limit sensor are used. A maximum temperature limit can be set for the limit sensor, so the thermostat will switch off if the temperature at the place of the limit sensor reaches the maximum temperature. This set-up with a limit sensor can, for instance, be used to avoid damage to some delicate floor covering.

- **Air Temp. Control**: The sensor is placed in the thermostat.

- **Air Cont. Floor limit**: Apart from the sensor inside the thermostat an extra limit sensor is used. A maximum temperature limit can be set for the limit sensor, so the thermostat will switch off if the temperature at the position of the limit sensor reaches the maximum temperature. This set-up with an extra limit sensor can, for instance, be used to avoid damage to some delicate floor covering.

- **Regulator Control**: No sensor is used here. The thermostat will turn on in sequences of 20 minutes, and you can specify the length of the sequences as a percentage of 20 minutes. If you, for example, set the regulator to 50, the thermostat will turn on for 10 minutes, switch off for 10 minutes, and then turn on again for 10 minutes.

- **External Control**: Used in case of a set-up with several thermostats being controlled by an external master thermostat. Then the thermostat will work as a slave, and you cannot apply any settings at all since the master thermostat controls it.

6.5. Service
If you need tecnical help then select **Service** from the main menu to see the contact information.

6.6. Contact Details
Select **Contact Details** from the main menu to see the contact information.

Warmup plc
www.warmup.com
GB +442084536868
USA +12037910072
ES +34800099988
PT +351800812080
F +33080563990

6.7. Engineer Settings
To select **Engineer settings**, press the up and down button at the same time for 5 seconds.
Note: Changes may invalidate warranty.

6.7.1. Readout
Here you see readouts of the following current temperatures:

- **Room temp**
- **Floor temp**
- **Floor limit temp**

You can also get readouts of some statistics:

- **Min daily**: A percentage indicating the minimum activated period within 24 hours over the last 14 days.

- **Max daily**: A percentage indicating the maximum activated period within 24 hours over the last 14 days.

- **2 Days**: Indicates how many % the heater has been turned on for the last two days.

- **30 Days**: Indicates how many % the heater has been turned on for the last 30 days.

- **360 Days**: Indicates how many % the heater has been turned on for the last 360 days.

- **Min Air**: Minimum room temperature within the last 48 hours.

- **Mean Air**: Average room temperature within the last 48 hours.

- **Max Air**: Maximum room temperature within the last 48 hours.

- **Min Floor**: Minimum floor temperature within the last 48 hours.

- **Mean Floor**: Average floor temperature within the last 48 hours.

- **Max Floor**: Maximum floor temperature within the last 48 hours.

- **Cut out cnt**: Number of relay connections in the service life of the thermostat. This value is never reset.

- **Application**: Here you can get readout for the current application type that has been selected in the General settings
  - Floor
  - Floor-2
  - Air
  - Air-Limit
  - Reg.
  - Ext.

- **Software ver.**: Indicates the current version of the software.

6.7.2. Temp. Settings
Here you can specify the wanted minimum and maximum temperatures for air, floor, or external limit sensor.

Before you can select minimum and maximum limits for air, floor or limit sensor, the application for the regulator type in question must be chosen. Please refer to section about General **Settings – Application** on page 11 for more details.

Please note: If you do not specify any settings here, the factory settings will be used.

- Air Temp. Range
  - Max Temp
  - Min Temp
- Floor Temp. Range
  - Max Temp
  - Min Temp
- Limit Sensor
  - Max Temp
  - Min Temp

6.7.3. Adaptive function
Here you can activate/deactivate (On/Off) the adaptive function. This function is only related to the 4-event timer and only works in connection with going from one event to another where the temperature is going to be

raised. The adaptive function finds out when the thermostat shall start heating to ensure that the right temperature is reached at the time that it has been programmed for.

6.7.4. Offset
Offset is used to compensate for any difference between the thermostat and a room thermometer. If the thermometer, for instance, shows 1°C more than the thermostat, it is possible to adjust the offset by +/- 5°C. Then the thermostat will show the same temperature as the thermometer. If the thermostat for example shows 1 degree too much, offset should be set to +1. Then the temperature will be set 1 degree lower.

Offset applies to both built-in and external sensors whereas the limit sensor, if any, is not affected.

6.7.5. Fil Pilote*
Here you can specify temperature settings that will depend on which signal is received from the Fil pilote input.

***Please note:** The Fil pilote menu is only available in type WA-STAT-VB. It is primarily for usage in France.

- Eco Temp: Economic temperature
- Frost Prt T: Frost protection
- Fil Pilote: On/Off

6.7.6. Reset
- Reset 2: Reset values defined in Engineer settings to factory settings.

- Reset 3: Equal to Reset 2, except history data are deleted. The number of relay connections is not deleted, though.

7. Error Messages

If you get an error the LED is flashing red.

Internal failure	Contact Warmup
External failure	Contact Warmup

8. Factory settings

The thermostat is delivered with factory set programs as follows:

Day 1-5			
Event	**Time**	**With floor sensor**	**With air sensor**
Day	06:00-08:00	25°C	20°C
Out	08:00-16:00	20°C	15°C
Home	16:00-22:30	27°C	22°C
Night	22:30-06:00	20°C	15°C
Day 6-7			
Event	**Time**	**With floor sensor**	**With air sensor**
Day	08:00-23:00	27°C	22°C
Night	23:00-08:00	20°C	15°C

9. Appendix

9.1. Table of Compatibility

	Tiles	**Stone**	**Laminate**	**Wood**	**Carpet**	**Vinyl**	**Other**
Wire	YES	YES	NO	NO	NO	NO	n/a
Ribbon Wire	YES	YES	YES	YES	NO	NO	n/a
Carbon	YES	YES	YES	YES	YES	YES	n/a
Central heating	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Type A	YES	YES	NO	NO	NO	NO	n/a
Type B	NO	NO	YES	YES	NO	NO	n/a
Type C	NO	NO	NO	NO	YES	YES	n/a
User Defined	n/a	n/a	n/a	n/a	n/a	n/a	n/a

9.2. Heat Definitions

	Tiles	**Stone**	**Laminate**	**Wood**	**Carpet**	**Vinyl**	**Other**
Wire	A	A	n/a	n/a	n/a	n/a	H
Ribbon Wire	A	A	B	B	n/a	n/a	H
Carbon	A	A	B	B	C	C	H
Central heating	G	G	G	G	G	G	H
Type A	D	D	n/a	n/a	n/a	n/a	H
Type B	n/a	n/a	E	E	n/a	n/a	H
Type C	n/a	n/a	n/a	n/a	F	F	H
User Defined	H	H	H	H	H	H	H

Configuration	**Control temperature**		**Overheat**
	Room	**Floor**	
	Min. Max.	**Min. Max.**	**Max.**
A	5 40	5 40	40
B	5 27	5 27	30
C	5 25	5 25	30
D	5 40	5 50	55
E	5 27	5 45	50
F	5 25	5 35	40
G	5 45	n/a	n/a
H	prog	prog	prog

n/a = not available

5 7 6 2 8

INSTRUCTIONS

Programmable Thermostat WA-XSTAT

57627B 11/06 (BJ)

English

The electronic comfort controller is a clock thermostat that can be programmed to function as a floor temperature controller and room temperature controller with a limitation function. The thermostat is intended for mounting in a 55 mm standard wall socket. The operating area ranges from +0° to +30°C. The thermostat incorporates a clock enabling the programming of several setback functions.

Controller setting WA-XSTAT

Program choice:
Floor temperature control
Floor temperature control with 2 sensors
Air temperature control
Air temperature control with floor temperature limit
Regulator control
External control

The controller is designed in accordance with current product standard EN 60730-2-9, and fulfill hereby the requirements to both LVD and EMC directives.

The controller must not be put into operation until it has been ascertained that the entire installation complies with current general safety requirements for electrical installations.

The warranty is only valid if the controller has been put into operation in accordance with the operating instructions supplied with the controller and these installation instructions.

Technical data

Supply voltage . . . . . .230V ±15%, 50 Hz
Output relay SPST 16A, 3600W
Temperature range . . . . . .+0/+30°C
Temperature limitation . . . .min./max. +5/+55°C
Clock function . . . .1 pre-installed programmes
28 optional setback programmes
Ambient temperature . . . . . .0/+30°C
On/off differential . . . . . .0,4°C
Housing . . . . . .IP 21
Sensor type . . . . . .NTC
- heating is switched off in case of sensor failure
Dimensions (HxWxD) (fig. 6) . . . . .86/86/48 mm
The controller is maintenance-free.

Control pollution degree: 2
Pollution degree 2 is representative of normal household air circulation.

Overvoltage category: III

Classification
The product is a class II device (reinforced insulation) and the product must be connected to the following conductors:
1) Phase (L)
2) Neutral (N)

The thermostat is constructed to store the clock up to 4 hours at an occasional voltage interruption. It is not suitable for use by regular voltage interruptions. (Example: Power term applications). At such conditions a constant power supply for the thermostat must be ensured.

WARNING – Important Safety Instructions
Isolate supply before carrying out any installation or maintenance work on this control unit and associated components. This control unit and associated components should only be installed by a competent person (i, e qualified electrician). Electrical installation to be in accordance with latest IEE Wiring Regulations and appropriate Statutory Regulations.

Mounting of sensor
Floor sensor: Placed in an approved non conductive installation pipe in accordance with EN 61386-1, which is embedded in the floor. (fig. 3). The pipe is closed in the end and placed as high as possible in the concrete layer. The installation pipe must be centered in between the heating cable.

The enclosed 3 meter sensor cable can be extended up to 100 m by means of a separate cable. If the extension cable is lighter than H05VV-F, it shall equally be installed in an unbroken installation pipe between the sensor cable and the extension cable. Two remaining cores of a multi-core cable which, for example, supplies current to the heating wires of a floor heating system, must not be used. The switching peaks of such current supply lines may create interfering signals that prevent optimum controller function. The two-corecable must be placed in a separate pipe.

Controller installation site
The controller must be mounted on the wall so that air can circulate freely around it (fig. 4). An installation site must be selected where the controller is not exposed to foreign energy sources, e.g. solar radiation. The controller must not be exposed to draughts coming from, for example, windows, doors or cold outer walls.

The controller has a built-in fault interrupter circuit which interrupts the heating in case of disconnected or short-circuited sensor.

Mounting of controller
The single gang mounting box must have a debt of no less than 25 mm.
1. Use a screwdriver in both sides to open the lock.
   The cover must be dismounted (fig. 1).

2. **Connect cables according to the diagram (fig. 2a-2b).**

All electrical connections must be performed by a fully qualified and Part P certified electrician.

3. The thermostat is mounted in the wall socket. The cover is remounted.

Programming
(See user manual)
The controllers are delivered with a pre-installed setback programme.

If the pre-installed setback programme is not used, there are different programmes which can be selected and used on the required days.

The controllers calculate when the heating is to be switched on to make sure that the comfort temperature is obtained to the required time.

Fault location
If the sensor is disconnected or short-circuited, the heating system is switched off. The sensor can be checked according to the resistance table fig. 5.

Environment and recycling
Please help us to protect the environment by disposing of the packaging in accordance with the national regulations for waste processing.

Recycling of obsolete appliances

NW107UW-A

Appliances with this label must not be disposed off with the general waste. They must be collected separately and disposed off according to local regulations.

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Español

El controlador electrónico de confort es un termostato cronometrado que se puede programar para funcionar como controlador de temperatura del piso y como controlador de temperatura ambiente con una función limitadora.
El termostato está diseñado para montaje en un receptáculo de pared estándar de 55 mm. Los límites de funcionamiento son de 0° a +30 °C.
El termostato incorpora un reloj que permite la programación de varias funciones de reducción de temperatura.

Ajuste de controlador WA-XSTAT

Opción de programa:
Control de temperatura de piso
Control de temperatura de piso con 2 sensores
Control de temperatura del aire
Control de temperatura del aire con límites de temperatura de piso
Control regulador
Control externo

El controlador está diseñado de acuerdo con las normativas de producto vigentes EN 60730-2-9, y por lo tanto cumple los requisitos de las directivas LVD y EMC.
No se debe accionar el controlador antes de verificar que toda la instalación cumpla con los requisitos vigentes de seguridad general para instalaciones eléctricas.

La garantía es válida solamente si el controlador se ha puesto en servicio de acuerdo con las instrucciones de operación suministradas con el controlador y estas instrucciones de instalación.

Datos técnicos

Tensión de alimentación . . .230 V ±15%, 50 Hz
Relé de salida SPST . . . . . .16 A, 3600 W
Rango de temperatura . . . . . .+0/+30 °C
Limitación de temperatura mín./máx. +5/+55 °C

Función del reloj . . . . .1 programa preinstalado
. . . . . .28 programas opcionales
. . . . . .de reducción de temperatura
Temperatura ambiente . . . . . .0/+30 °C
Diferencial Activado/Desactivado . . . . . .0,4 °C
Protección . . . . . .IP 21
Tipo de sensor . . . . . .NTC
- Se apaga la calefacción si falla el sensor . . . . .
Dimensiones (Alt.xAxProf.) (fig. 6) .86/86/48 mm

El controlador no requiere mantenimiento.

Control del grado de contaminación: 2
El grado de contaminación 2 es representativo de la circulación de aire en la vivienda.
Categoría de sobretensión: III

Clasificación
El producto es un dispositivo clase II (aislamiento reforzado) y el producto se deberá conectar a los siguientes conductores:
1) Fase (L)
2) Neutro (N)

El termostato está construido para guardar el reloj hasta un máximo de 4 horas en caso de una interrupción ocasional de tensión. Esta característica no está destinada para el uso durante interrupciones regulares de tensión. (Ejemplo: Aplicaciones PowerTerm). En dichas condiciones se debe asegurar el suministro eléctrico constante para el termostato.

ADVERTENCIA – Instrucciones importantes de seguridad
Aísle la fuente de alimentación antes de realizar cualquier instalación o trabajo de mantenimiento en esta unidad de control y sus componentes asociados. Solamente personal competente (electricistas cualificados) deberían instalar esta unidad de control y los componentes asociados. La instalación eléctrica deberá realizarse de acuerdo con las Normativas Estatutarias aplicables más recientes.

Montaje del sensor
Sensor de piso: Colocado en una tubería de instalación no conductiva de uso aprobado de acuerdo con EN 61386-1, la cual está incrustada en el piso (fig. 3). La tubería está cerrada en el extremo y colocada lo más arriba posible en la capa de hormigón. La tubería de instalación deberá quedar centrada entre los cables de calefacción.

El cable sensor de 3 metros incluido se puede extender hasta 100 m por medio de un cable separado. Si el cable de extensión es más liviano que H05VV-F, habrá que instalarlo en una tubería de instalación continua entre el cable del sensor y el termostato. No se debe utilizar los dos núcleos restantes de un cable multinúcleos que, por ejemplo, suministre corriente a los cables de calefacción de un sistema de calefacción por suelo radiante. Los picos de conmutación de dichas líneas de suministro de corriente pueden crear señales de interferencia que impidan el funcionamiento óptimo del controlador. El cable de dos núcleos se debe instalar en tubería separada.

Sitio de instalación del controlador
Se debe instalar el controlador sobre la pared de manera que el aire pueda circular libremente alrededor del mismo (fig. 4). Se debe seleccionar un sitio de instalación donde el controlador no quede expuesto a fuentes externas de energía, por ejemplo, la radiación solar. No se debe exponer el controlador a corrientes de aire que provengan de, por ejemplo, ventanas, puertas o paredes frías exteriores.

El controlador tiene integrado un circuito de interruptor de fallo que interrumpe la calefacción en caso de que el sensor se desconecte o se coloque en cortocircuito.

Montaje del controlador
La caja sencilla de montaje en grupo debe tener una profundidad mínima de 25 mm.
1. Use un destornillador en ambos lados para abrir la cerradura.
   Se debe desmontar la cubierta (fig. 1).

2. Conecte los cables de acuerdo con el diagrama (fig. 2a-2b).
   Todas las conexiones eléctricas deberán ser efectuadas por un electricista debidamente cualificado y con certificación Parte P.

3. El termostato se instala en el receptáculo de pared. Se vuelve a colocar la cubierta.

Programación
(Ver el manual para el usuario)
El controlador se entrega con un programa preinstalado de reducción de temperatura.
Si no se usa el programa preinstalado de reducción de temperatura, hay diferentes programas que se pueden seleccionar y utilizar en los días que así se requiera.

El controlador calcula cuándo se debe encender la calefacción para asegurarse de alcanzar la temperatura de confort a la hora determinada.

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Ubicación del fallo
Si el sensor está desconectado o en cortocircuito, se apaga el sistema de calefacción.
Se debe verificar el sensor de acuerdo con la tabla de resistencias de la fig. 5.

Medio ambiente y reciclaje
Por favor ayúdenos a proteger el medio ambiente mediante la eliminación del material de embalaje de acuerdo con las normativas nacionales para el procesamiento de desechos.

Reciclaje de electrodomésticos obsoletos
Los electrodomésticos con esta etiqueta no se deben eliminar junto con los desechos generales. Estos deben ser recolectados separadamente y eliminarse de acuerdo con las normativas locales.

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Deutsch

Der elektronische Komfortregler ist ein Uhrenthermostat, der als Bodentemperaturregler oder Raumtemperaturregler mit Begrenzungsfunktion programmiert werden kann. Der Thermostat ist für Unterputzmontage in einer 55 mm Standard-Wanddose vorgesehen. Der Betriebsbereich liegt zwischen +0 °C und +30 °C. Der Thermostat verfügt über eine eingebaute Uhr, die das Programmieren mehrerer Setback-Funktionen ermöglicht.

Reglereinstellung WA-XSTAT

Programmwahl:

- Bodentemperaturregelung
- Bodentemperaturregelung mit 2 Fühlern
- Lufttemperaturregelung
- Lufttemperaturregelung mit Bodentemperaturbegrenzung
- Reglersteuerung
- Externe Steuerung

Der Regler ist gemäß der geltenden Produktnorm EN 60730-2-9 ausgelegt, und erfüllt damit sowohl die Anforderungen der NS- als auch der EMV-Richtlinien.

Der Regler darf nicht in Betrieb genommen werden bevor gewährleistet ist, dass die Installation gesamthaft den allgemeinen Sicherheitsregeln für Elektroinstallationen entspricht.

Die Garantie gilt nur, wenn der Regler in Übereinstimmung mit der mit dem Regler mitgelieferten Betriebsanleitung und vorliegender Installationsanleitung in Betrieb genommen wurde.

Technische Daten
Netzspannung . . . . . .230 V ±15 %, 50 Hz
Ausgangsrelais SPST . . . . . .16 A, 3.600 W
Temperaturbereich . . . . . .+0/+30 °C
Temperaturbegrenzung . . .min./max. +5/+55 °C
Uhrfunktion . . . . . .1 vorinstalliertes Programm
. . . . .28 Setback-Programme zur Wahl
Umgebungstemperatur . . . . . .0/+30 °C
ON/OFF Abweichung . . . . . .0,4 °C
Schutzart . . . . . .IP 21
Sensortyp . . . . . .NTC
- Bei Fühlerstörung wird die Heizung abgeschaltet.
Abmessungen (HxBxT) (Abb. 6) . .86/86/48 mm
Der Regler ist wartungsfrei.

Verschmutzungsgradkontrolle: 2
Ein Verschmutzungsgrad 2 entspricht der Luftzirkulation eines normalen Haushalts.

Überspannungskategorie: III

Klassifikation
Das Produkt ist ein Klasse-II-Gerät (mit verstärkter Isolierung) und ist an folgende Leiter anzuschließen:
1) Phase (L)
2) Nullleiter (N)

Bei unvorhergesehenem Spannungsausfall werden die Uhrdaten bis zu 4 Stunden im Thermostat gespeichert. Er ist nicht für den Einsatz bei regelmäßigen Spannungsausfällen geeignet. (Z. B.: Nachttarifanwendungen). Bei derartigen Bedingungen muss eine ständige Spannungsversorgung des Thermostats gewährleistet sein.

ACHTUNG – Wichtiger Sicherheitshinweis
Vor der Ausführung von Installations- oder Instandhaltungsarbeiten an dieser Regeleinheit und zugehörigen Komponenten ist die Spannungsversorgung zu unterbrechen. Diese Regeleinheit und zugehörige Komponenten dürfen nur von einer fachlich befähigten Person (d. h. autorisierter Elektriker) installiert werden. Die Elektroinstallation muss in Übereinstimmung mit den neuesten EU-Richtlinien für elektrische Betriebsmittel und den geltenden diesbezüglichen Rechtsvorschriften erfolgen.

Montage des Fühlers
Bodenfühler: Platzierung in einem gemäß EN 61386-1 zugelassenen nichtleitenden Installationsrohr, das im Boden eingelassen ist (Abb. 3). Das Rohr ist am Ende verschlossen und so hoch wie möglich in der Betonschicht platziert. Das Installationsrohr muss zwischen den Heizkabelserpentinen zentriert werden.

Das beiliegende 3 m lange Fühlerkabel kann mit einem separaten Kabel bis zu 100 m verlängert werden. Ist das Verlängerungskabel dünner als H05VV-F, muss es ebenfalls in einem zwischen Fühlerkabel und Thermostat durchgehenden Installationsrohr verlegt werden. Zwei freie Leiter eines Mehrleiterkabels, das beispielsweise Heizdrähte in einer Bodenheizungsanlage mit Strom versorgt, dürfen nicht verwendet werden. Die Schaltspitzen einer derartigen

Stromversorgung können das Signal beeinträchtigen und eine optimale Reglerfunktion verunmöglichen. Das Zweileiterkabel ist in einem separaten Rohr zu verlegen.

Reglerplatzierung
Der Regler ist so auf der Wand anzubringen, dass Luft frei um ihn zirkulieren kann (Abb. 4). Bei der Auswahl des Installationsorts ist darauf zu achten, dass der Regler keinen fremden Energiequellen, z. B. Sonnenstrahlung, ausgesetzt wird. Der Regler darf nicht von Fenstern, Türen oder kalten Außenwänden kommender Luftzug ausgesetzt werden.

Der Regler verfügt über einen eingebauten Fehlerschutzschaltkreis, der die Heizung bei unterbrochenem oder kurzgeschlossenem Fühler abschaltet.

Einbau des Reglers
Die UP-Montagedose muss mindestens 25 mm tief sein.
1. Zum Öffnen des Verschlusses auf beiden Seiten einen Schraubendreher benutzen. Der Deckel muss demontiert werden (Abb. 1).

2. Die Kabel gemäß Schaltplan anschließen (Abb. 2a-2b).

Alle elektrischen Anschlüsse müssen von einem dazu autorisierten Elektriker ausgeführt werden.

3. Den Thermostat in der Wanddose montieren. Der Deckel wieder aufsetzen.

Programmierung
(siehe Benutzerhandbuch)
Die Regler werden mit einem vorinstallierten Setback-Programm geliefert.

Das vorinstallierte Setback-Programm kann mit verschiedenen wahlweise zur Verfügung stehenden Programmen zur Anwendung an beliebigen Tagen ausgetauscht werden.

Die Regler berechnen den zum zeitgerechten Erreichen der Komforttemperatur erforderlichen Einschaltzeitpunkt der Heizung.

Fehlersuche
Bei unterbrochenem oder kurzgeschlossenem Fühler wird die Heizanlage abgeschaltet. Den Fühler ggf. gemäß Widerstandstabelle Abb. 5 checken.

Umweltschutz und Wiederverwertung
Bitte helfen Sie mit die Umwelt zu schützen – die Verpackung bitte den nationalen Regeln für Abfallverwertung entsprechend entsorgen.

Wiederverwertung ausgedienter Geräte
Geräte mit dieser Kennzeichnung dürfen nicht mit allgemeinem Abfall entsorgt werden. Sie müssen separat gesammelt und entsprechend den lokalen Vorschriften entsorgt werden.

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Fig.1

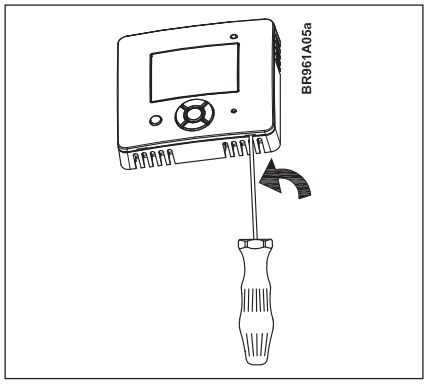

Fig. 2a - With fil pilote

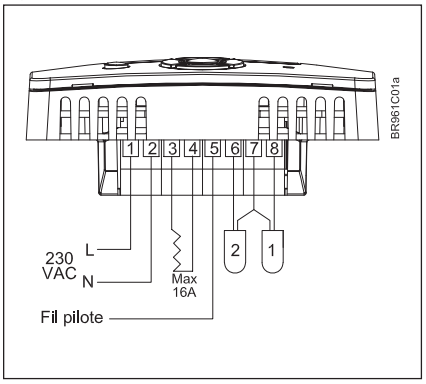

Fig. 2b - Master slave function

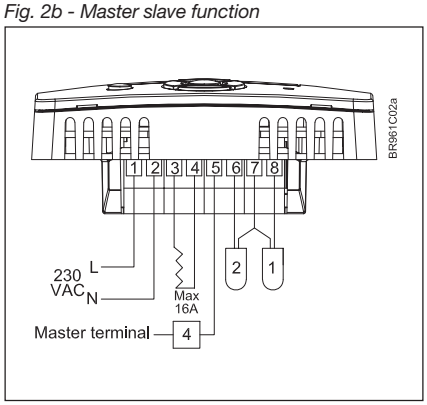

Fig. 3

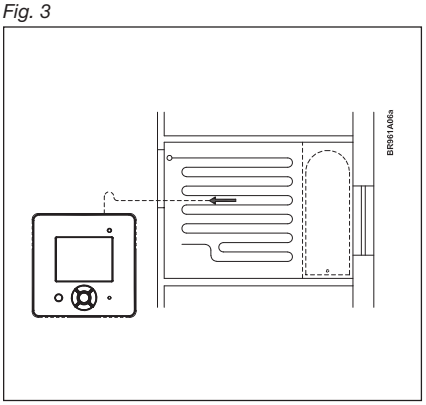

Fig. 4

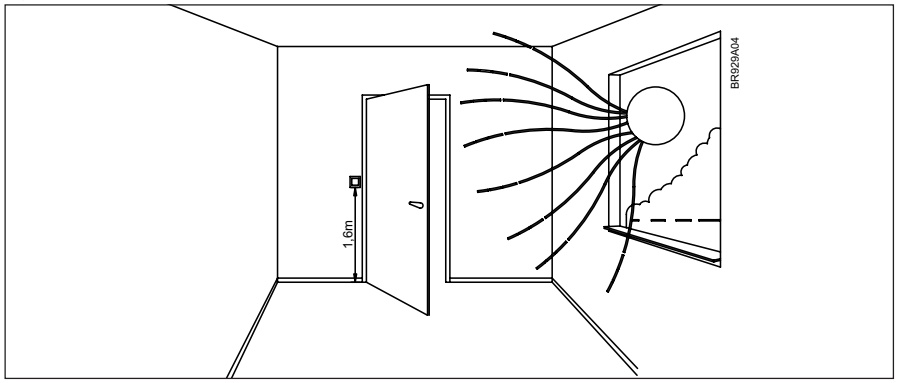

Fig. 5

Sensor	
Temp.(°C)	Value (ohm)
-10	64000
0	38000
10	23300
20	14800
30	9700

BR961A01a

Fig. 6